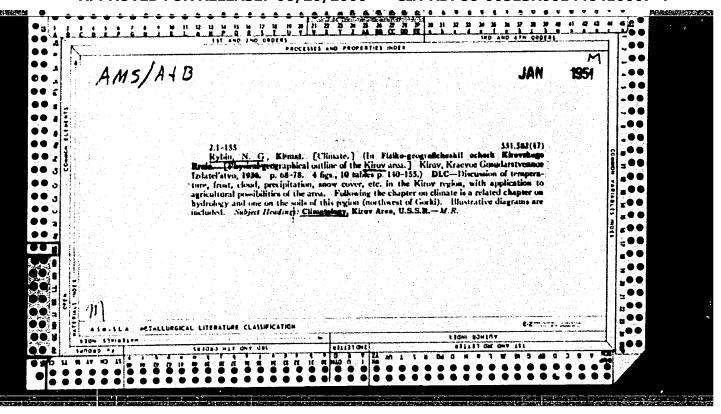
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RYSTE, W.S. Fiziko-geograficheskii ocherk Kirovskogo Kraia.		
RY3TH, 11.0. 17.160-00, tal 10.00-158 He	570 may 96 M646	
Kirov, kraevoe gos. izk-vo, 1936. 158 p.	DIC: TCC86.M6A5	
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SO: LC, Poviet Geography, Part II, 1951, Unclassified		
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RYBIN,	N.G., mashinist-instruktor	
	Our experience in operating VI22 ^M electric locomotive tepl. tiaga 4 no.10:38-41 0 160.	/es. Elek. i (MIRA 13:10)
	1. Depo Moskva-Sortirovochnaya Ryasanskaya.	
	(Mectric locomotives)	
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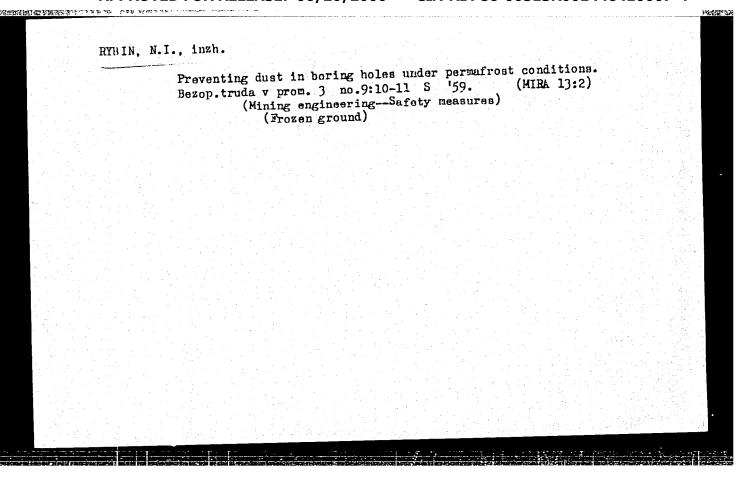
Determining the specific expenditure of explosives for driving of tunnels. Transp. stroi. 14 no.10:41-43	or the) '64. (MIRA 18:3)	

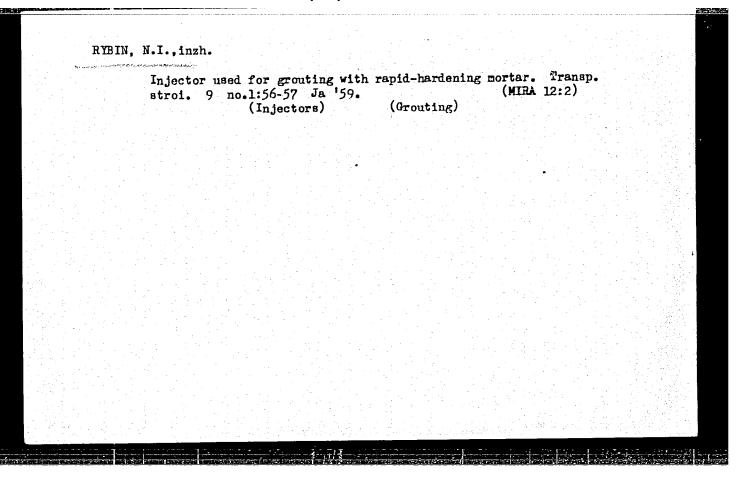
RYBIN, N.I., inzh.; SHLYAPIN, K.B., kand. tekhn. nauk

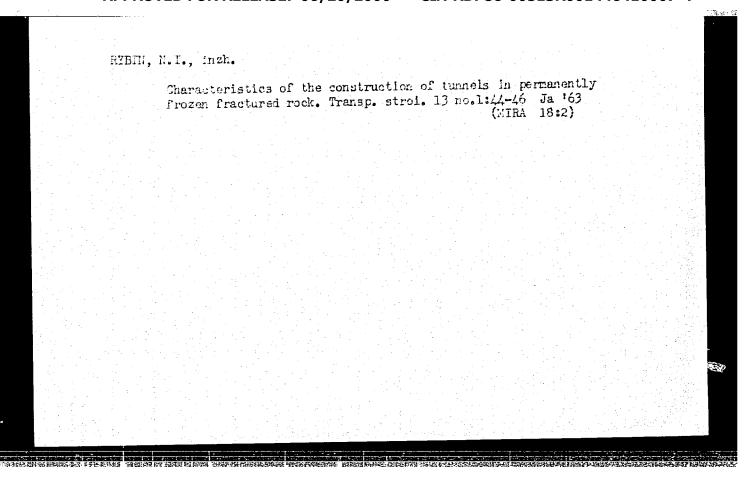
Ways to improve boring and blasting in tunnel construction.

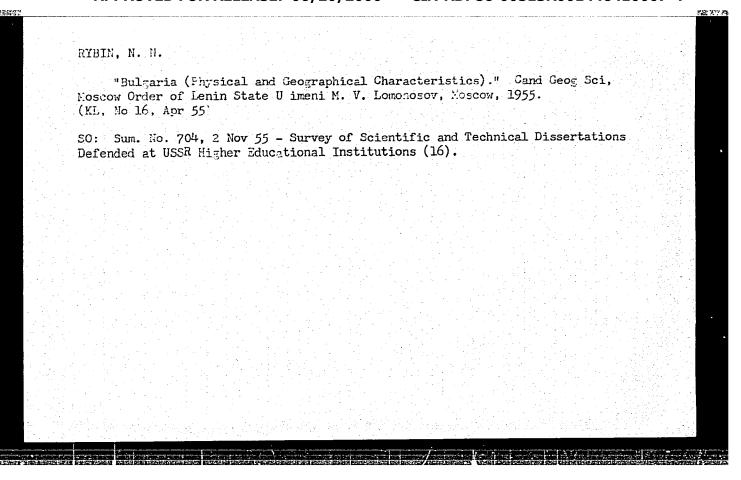
Transp. stroi. 13 no.5:57-59 My '63. (MIRA 16:7)

(Tunneling)









TORMAKOV, A.T.; IANATENKO, N.G.; BONDARENKO, Ya.I.; DAGAYEVA, T.K.; RYBIN, N.N.;
NEMBURINA, M.S.; KUNITSA, A.N.; ZHUPANSKII, Ya.I.; BUTKOVSKII, V.A.

In memory of Boris Mikolaevich Vishnevskii, 1891-1965. Izv. Vses.
geog. ob-va 97 nc.4:390-391 Jl-Ag '65.

(MIRA 18:8)

TSYS', P.N.; KALESNIK, S.V.; SOKOLOV, N.N.; CHOCHIA, N.S.; PROTOPOPOV, A.P.; ZAHELIN, I.M.; GVOZDETSKIY, N.A.; YEFREMOV, YU.K.; KARA-MOSKO, A.S.; KOZLOV, I.V.: SOLNTSEV, N.A.; ISACHENKO, A.G.; ARMAND, D.L.; MIROSHNICHENKO, V.P.; PETROV, K.M.; KAZAKOVA, O.N.; MIKHAYLOV, H.I.; PARMUZIN, YU.P.; GERENCHUK, K.I.; MIL'KOV, F.N.; TARASOV, F.V.; NIKOLAYEV, V.N.; SOBOLEV, L.N.; RYBIN, N.N.; DUMIN, B.YA.; IGNAT'YEV, G.M.; MEL'KHEYEV, M.N.; SANEBLIDZE, M.S.; VASIL'YEVA, I.V.; PEREVALOV, V.A.; BASALIKAS, A.B.

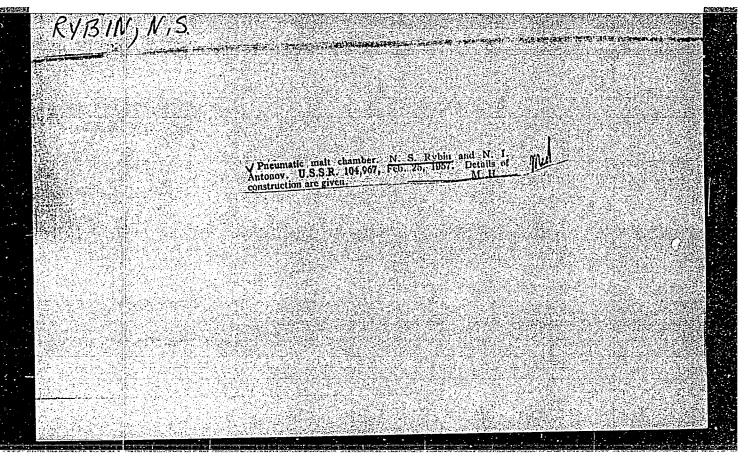
Discussion at the conference on studying land forms. Nauk. zap. Liviv. un. 40:231-267 '57. (MIRA 11:6)
1.L'vovskiy gosudarstvennyy universitet (for TSys', Gerenchuk, Dumin). 2. Laboratoriya aerometodov AN SSSR, Leningrad (for Sokolov, Miroshnichenko, Petrov). 3. Institut geografii AN SSSR. Moskva (for Armand, Sobolev). 4. Gosudarstvennyy universitet, Voronezh (for Mil'kov, Tarasov). 5. Leningradskiy gosudarstvennyy universitet (for Chochia, Isachenko, Kazakova). 6. Komissiya okhrany prirody AN SSSR, Moskva (for Protopopov). 7. Gosudarstvennyy universitet, Chernovtsy (for Rybin). 8. Gosudarstvennyy universitet, Irkutsk (for Mel'kheyev). 9. Gosudarstvennyy pedagogicheskiy institut im. V.I. Lenina, Moskva (for Vasil'yeva). 10. Bol'shaya Sovetskaya Intsiklopediya (for Zabelin). 11. Gosudarstvennyy universitet, Tbilisi (for Saneblidze). 12. Moskovskiy gosudarstvennyy universitet (for Gvozdetskiy, Solntsev, Mikhaylov, Parmuzin, Nikolayev, Ignat'yev). 13. Torgovo-ekonomicheskiy institut, L'vov (for Perevalov). 14. Gosudarstvennyy institut im. Kapsukasa, Vil'nyus (for Basalikas). 15. Muzey zemlevedeniya Moskovskogo gosudarstvennogo universiteta (for Yefremov, Kozlov). 16. Srednyaya shkola No.13, Kiyev (for Kara-Mosko). (Physical geography)

RYBIN, N.S.; LOKSHIH, Ya.Yu.; SABUROV, N.V., prof., spetsred.; RYZHOVA,

M.S., red.; GOTLIB, E.M., tekhn.red.

[Equipment for producing dried fruits] Oborudovanie dlia
proizvodstva sushenykh fruktov. Moskva, Pishchepromizdat,
1957. 59 p. (Obsen peredovym tekhnicheskim opytom). (MIRA 11:12)

(Fruit--Drying) (Drying apparatus)



Production line for groats concentrates in a standard vegetable drying plant. Kons. i ov. prom. 12 no.1:4-6 Ja '57. (MIRA 10:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'noy promyshlennosti.

(Barley) (Millet) (Food, Concentrated)

l. Vsesoyuznyy nauchno issledovatel'skiy institut konservnoy i ovoshche- sushil'noy promyshlennosti. (Tomatoes)	Organization of tomato processing station 8-9 F 57.	s. Kons. 1 ov. prom. 12 no.2: (MIRA 10:6)
	oughil nov promyshlennosti.	institut konservnoy i ovoshche-

Testing of steam-conveyor and tower-type dryers for the production of food concentrates. Kons. i ov. prom. 13 no.9:20-22 S '58.

(MIRA 11:10)

1. Vsesoyuzny nauchno-issledovatel'skiy institut konservnoy i ovoshchesushil'uoy promyshlennosti.

(Drying apparatus) (Food--Drying)

	RYBIN.	P.P.	
	enter mente entre en	One feature of a Nekrasov-Mazarov sequence. Uch. zap. Kaz. un. 117	
		no.9:11-13 .157.	
trong i		l. Kazanskiy gosudarstvennyy universitet im. V.I. Ul'yanova-Lenina.	
		Wofodra matematicheskogo analiza.	
		(Sequences (Mathematics))	
		그리다 그들은 하는 이 그는 일을 하는 그는 그들은 생생들이 대학생이다고 살았다.	
		그 하면 되는 음식 물이 물이 되어 가는 그 말을 하고 있는 사람들은 사람들은 사람들이 됐다.	: 1
		실어, 살아는 그 사이트의 이번 이번 하는 사람이 되었다. 그 이번 사이에 나는 이 克姆	- 1
-		그 선생님 하다는 일 하는 사람은 사람이 하는 것 같아. 그는 그 사람들은 일 하다는 것 않았다.	
		10 전문 1918년 1일 이 학교를 본 기계 인도 10 10 10 16 16 16 16 16 16 16 16 16 16 16 16 16	
		선 사람들이 되는 사람들이 되는 사람들이 가는 사람들이 가는 사람들이 가는 것을 받았다.	
		"我们的我们的话,我们就不是我们的意思,我们就会不知识的,就是我们的最后,我们就是我	Ą ń
			40
		보다 원생님 아이들 그 아이들은 사람들이 되었다. 그 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은 사람들은	
		그 하지만 그 사람들은 이 이 사람들이 되는 아니는 사람들이 되었다. 이 그는 그들은 사람들이 되었다면 했다.	
		그는 그 그 있는 하는 그들은 가족 그는 하는 하는데 그 전에 가는 학교 가는 문학에 가는 생활 가득 내용됐	
		그 이 그는 그는 학생님은 그리고 한 것이 되는 그들은 학생들은 그 그 그 그 그들은 학생들은 사람이 들었다.	
		가 그는 그 그 그 그들은 그 가수 하지만 그게 되고 있는 그 그는 그는 다른 가수 있어야?	
		성도 하고 보고 한 지상 보고 있으면 하다 하는 일반에 하다 하나 있다고 되어 되었다. 현기 수 있다고 함께	
4.0		하는 사람들 하는 생각을 하는 사람들은 사람들은 사람들이 되는 사람들이 가지 않는 사람들이 가장 하셨다.	
		레노이 회문 문학 이 일은 이 후에 작물하고 하는 사람들은 원생한 한다면 된 사이트는 이 보면화 형은	4
		그 그렇게 도착하는 살이 살아가고 없었다. 어린 생활이 있는데 문문 문문 다시 그리 할 것 때 이번 화장했다.	
		근 사람들 아이들은 경기 가는 살 살아 가는 사람들이 가는 그를 가지 않는 것이다.	
		하는 사람들의 사람들이 되었다. 그렇게 되었다는 그 사람들은 사람들은 사람들이 되었다. 전환 사람들이 되었다.	
	and the second of the second o	en de la companya de	

	RYBH	$\mathcal{L}_{i}\mathcal{P}_{i}\mathcal{P}_{i}$
	RYBIN,	
		Particular solutions of a linear, integral, perturbation equation [with summary in English]. Vest. IGU no.19:30-34 '57. (MIRA 11:1) (Integral equations)
•		

	还要的是我们,但你是我们会是是我们的,我们就是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个	March 1
RYBIN, P.P.	20-3-9/59	
AUTHOR:	Rybin, P.P. On the Convergence of Series Obtained in Solving Non-Linear polychapenykh pri The Royalions (Oskhodimosti ryadov, polychapenykh pri	
TITLE:		
PERIODICAL:	Doklady Akademii Nauk SSSR, 1907, (USSR)	
ABSTRACT:	(USSR) This paper examines the nonlinear integral equation $\varphi(x) = \begin{cases} K(x, y, \varphi(y), \lambda) & \text{the function } K(x, y, y, \lambda) \\ K(x, y, \varphi(y), \lambda) & \text{the function } K(x, y, y, \lambda) \end{cases}$ be continuous with regard to all variables as well as analytical be continuous with regard to φ and λ . The representation	
	with reserved of the served of	
	$K(x, y, \varphi, \lambda) = \sum_{i,j=0}^{A} A_{ij}(x, y) \varphi^{i} \lambda$ with ij. Shall be valid and the functions $A_{ij}(x, y)$ shall be continuous.	
	shall be valid and the functions $A_{ij}(x, y)$ shall converge at The series $B(\varphi, \lambda) = \sum_{j=1}^{n} \beta^j \lambda^j$ shall converge at $A_{ij}(x, y) = 0$ shall apply. The property $A_{ij}(x, y) = 0$ shall apply. The author gives some general principles on the convergence of the	
Card 1/3		

20-3-9/59

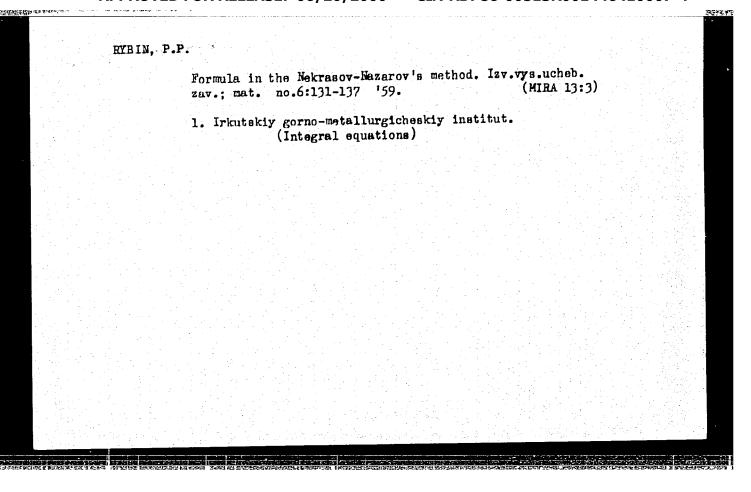
On the Convergence of Series Obtained in Solving Non-Linear Integral Equations

formal solutions $\mathcal{G}(x) = \lambda \mathcal{G}_1(x) + \lambda^2 \mathcal{G}_2(x) + \ldots$ of the equation $\mathcal{G}(x) = \int_0^x K(x, y, \varphi(y), \lambda) dy$. A complication occurs only when the number 1 is an eigenvalue of the linear integral operator $A_1 \circ \mathcal{G}(x) = \int_0^x A_1 \circ (x, y) \varphi(y) dy$. The corresponding equation for the determination of the functions $A_1 \circ (x, y) = A_2 \circ (x, y) = A_3 \circ (x, y) = A_4 \circ (x, y)$

Card 2/3

RYBIN, P. .., Cand rhys Math Sci — (diss) "The distinghed linear integral equation." Irkutsk, 1958, Cover, L pp (Kazan' Order of Labor Red Banner State Univ im V.I. M'yanov-Lenin) (KL, 27-58, 102)

- 20 -



16(1) AUTHOR:

Rybin, P. P.

SOV/140-59-6-17/29

TITLE:

On a Formula in the Method of Nekrasov-Nazarov

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959,

Nr 6, pp 131-137 (USSR)

ABSTRACT:

According to the Academicians A.I. Nekrasov and N.N. Nazarov the solution of the non-linear integral equation

 $u(x) = \int_{0}^{A} A_{01}(x,s)u(s)ds + v \int_{0}^{A} A_{10}(x,s)ds + \int_{0}^{A} \sum_{i+j \geqslant 2}^{A} A_{ij}(x,s)v^{i}u^{j}(s)ds ,$

where v is a small parameter, $A_{ij}(x,s)$ are continuous functions, can be obtained by the series arrangement

(4) $u(x) = \sum_{i \ge 1} v^i u_i(x)$. But if 1 is an eigenvalue of A_{01} , then the determination of the functions u; (x) raises difficulties which partially are put

Card 1/2

C6316

On a Formula in the Method of Nekrasov-Nazarov

507/140-59-6-17/29

aside by V.V.Pokornyy Ref 37. Here it is essential to obtain an effective system for the determination of the constants of integration. Such a system was already given by the author Ref 4. The present paper contains a general result for this problem.

There are 6 references, 5 of which are Soviet, and 1 German.

ASSOCIATION: Irkutskiy gorno-metallurgicheskiy institut (Irkutsk Mining-Metallurgical Institute)

SUBMITTED: June 13, 1958

Card 2/2

Stabilizing the process of finding formal implicit functions.
Usp. mat. nauk 15 no.4:169-172 J1-Ag '60. (MIRA 13:9)
(Functional analysis)

POKORNYY, V.V., RYBIN, P.P.

S/042/60/015/004/014/017XX C111/C222

16.2600

AUTHORS: Pokornyy, V.V., and Rybin, P.P.

TITLE: On the Stabilization of the Process of Finding Formal Implicit

Functions

PERIODICAL: Uspekhi matematicheskikh nauk, 1960, Vol. 15, No. 4, pp. 169-172

Let the function $\alpha = \alpha(\lambda)$ be defined by the equation

 $F(\alpha, \lambda) = \sum_{k+1>1} T_{k1}^{\alpha k} \lambda^{1} = 0.$ (1)

Substituting

Substituting
(2)
$$\alpha = \sum_{k=1}^{\infty} \infty_k \lambda^{\frac{k}{8}} \quad (s \ge 1)$$

 $F(\infty,\lambda) = \sum_{k+1 \ge 1} T_{k1} \left(\sum_{k=1}^{\infty} \alpha_{k} \lambda^{\frac{2n}{2}} \right)^{k} \lambda^{1} = \sum_{n=1}^{\infty} P_{n}(\alpha_{1},\ldots,\alpha_{n}) \lambda^{n},$ in (1)

then og and s can be determined from the conditions

$$(3) \quad P_n(\alpha_1,\ldots,\alpha_n) = 0.$$

Card 1/3

S/042/60/015/004/014/017XX C111/C222

On the Stabilization of the Process of Finding Formal Implicit Functions For a successive determination of the coefficients α_k from the system (3) it was observed that, beginning with a certain number n_0 , all equations (3) are linear with respect to α_k and at α_k they have the same coefficient different from zero. M.A, Krasnosel'skiy denoted this phenomenon as "stabilization". The authors prove that this phenomenon always appears for the mentioned process, namely at the latest if in the sequence $\{T_{01}\}$ there appears the first coefficient different from zero. Let $A_{kl}(x,y)$ be continuous, λ - small parameter.

Theorem 3: For the equation

(6)
$$\varphi(x) = \int_{0}^{A_{10}} (x,y) \varphi(y) dy + \lambda \int_{0}^{1} A_{01}(x,y) dy + \int_{0}^{1} \left\{ \sum_{k+1 \ge 2} A_{k1}(x,y) [\varphi(y)]^{k} \lambda^{1} \right\} dy$$

the determination of the coefficients $\phi_k(x)$ of the solution arrangement

Card 2/3

S/042/60/015/004/014/017XX C111/C222

On the Stabilization of the Process of Finding Formal Implicit Functions

(7)
$$\varphi(x) = \varphi_1(x) \lambda + \varphi_2(x) \lambda^2 + \cdots$$

stabilizes from the system

(8)
$$\varphi_{k}(x) = \int_{0}^{1} A_{10}(x,y) \varphi_{k}(y) dy + B_{k}(x,\varphi_{1},...,\varphi_{k-1}) \quad (k=1,2,...).$$

The authors mention A.I. Nekrasov and N.N. Nazarov. There are 6 references: 5 Soviet and 1 American.

SUBMITTED: December 8, 1958

Card 3/3

22834 \$/199/61/002/001/005/008 B112/B218

16.4500

AUTHOR:

Rybin, P. P.

TITLE:

Construction of solutions of nonlinear integral equations in the form of a Laurent series

the form of a Laurent series

PERIODICAL: Sibirskiy matematicheskiy zhurnal, v. 2, no. 1, 1961, 127-128

TEXT: Integral equations of the form $\varphi(x) = \int_0^1 \sum_{i,j \ge 0} \lambda^j A_{ij}(x,s) \varphi^i(s) ds$ with $\int_0^1 |A_{ij}(x,s)| ds < \infty$ and continuous kernels A_{ij} have small solutions for

a small λ , which vanish for $\lambda \to 0$, and great solutions which tend to ∞ for $\lambda \to 0$. According to V. V. Pokornyy, the small solutions can be expanded in series of the form:

 $\varphi(x,\lambda) = \sum_{k=0}^{\infty} \varphi_k(x) \lambda^k / s$ if the number 1 is not at all, or at

least a single eigenvalue of the kernel $A_{10}(x,s)$. Of the great solutions, it is known that in their expansion in a series of λ also a finite number Card 1/3

Construction of ...

S/199/61/002/001/005/008 B112/B218

of negative powers may occur, and that therefore the point $\lambda=0$ may be an algebraic branch point or a pole of finite order. M. A. Krasnosel'skiy has raised the question whether the point $\lambda=0$ may also be an essentially singular point of the solution. In the present paper, the author proves that this question must be answered in the affirmative. For this proof he uses the following nonlinear integral equation:

$$z(x) = -2\varphi(x) \int_{0}^{x} \varphi(s)\psi(s)z(s) ds$$

$$+\lambda \left[\varphi(x) \int_{0}^{x} \psi(s)z^{2}(s)ds + \sum_{n=3}^{\infty} \int_{0}^{1} d_{n}(s)z^{n}(s)ds\right], \text{ where } a_{n}(s) = b_{n}(s)/n!\beta_{n},$$

$$(b_{n}, \varphi^{k}) = \begin{cases} 0 & \text{for } k < n \\ 1 & \text{for } k = n \end{cases}$$

$$\beta_n = \begin{cases} 1 & \text{for max } |b_n(s)| \leq i \\ \max |b_n(s)| & \text{for max } |b_n(s)| > 1 \end{cases}$$

$$(\varphi,1) = 0$$
, $(\varphi,\varphi^2) = -1$. This integral equation has a solution: $z(x,\lambda) = |\varphi(x)/\lambda| + c(\lambda)$ with

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s/199/61/002/001/005/008 B112/B218

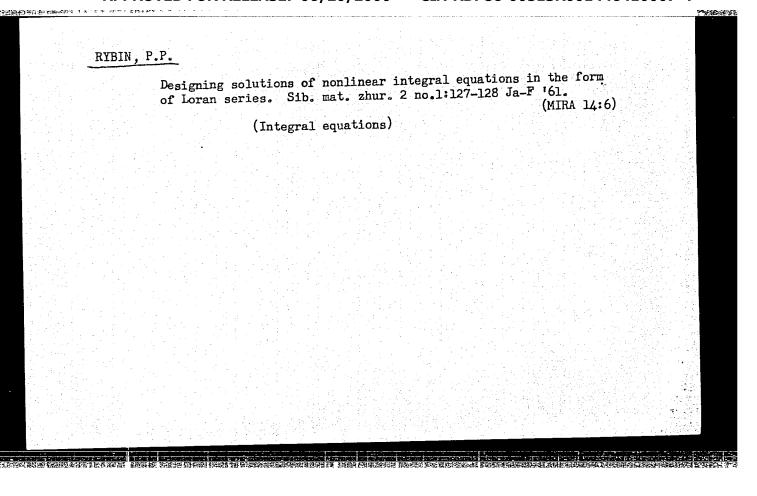
Construction of ...

 $c(\lambda) = \frac{1}{3!\beta_3\lambda^2} + \frac{1}{4!\beta_4\lambda^3} + \dots$, for which $\lambda = 0$ is an essentially singular

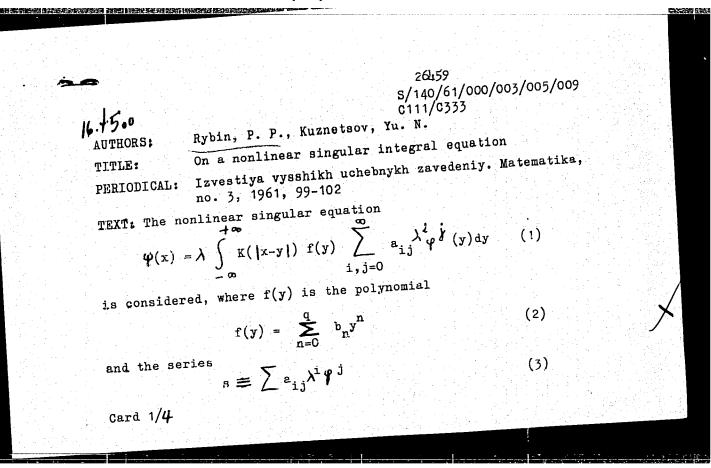
point. There are 2 Soviet-bloc references.

SUBMITTED: February 16, 1960

Card 3/3



P.P.; KUZNETSOV, Yu.N. One nonlinear singular integral equation. mat. no.3:99-102 '61.	Izv. vys. ucheb. zav.; (MIRA 14:7)
1. Irkutskiy gornometallurgicheskiy insti (Integral equations)	tut.



26459 s/140/61/000/003/005/009 C111/C333

On a nonlinear singular integral... converges absolutely for sufficiently small λ and all φ ; the a are constants. The solution is sought with the set up

$$\varphi(x,\lambda) = \lambda \varphi_1(x) + \lambda^2 \varphi_2(x) + \dots$$
 (4)

For determining the $oldsymbol{arphi}_{f i}$ one obtains the system

For determining the
$$\psi_1$$
 one obtains the system
$$\psi_1(x) = \int_{-\infty}^{+\infty} K(|x-y|) f(y) a_{00} dy$$

$$\psi_2(x) = \int_{-\infty}^{+\infty} K(|x-y|) f(y) \psi_1(y) dy$$

$$\psi_3(x) = \int_{-\infty}^{+\infty} K(|x-y|) f(y) \psi_2(y) dy$$

$$\operatorname{Card} 2/4 - \infty$$
(6)

s/140/61/000/003/005/009

On a nonlinear singular integral ... etc. where the Ψ_i are formed from the a_{ij} and the $\varphi_1,\ldots,\varphi_i$ by addition and multiplication. Since Ψ_n depends only on $\varphi_1,\ldots,\varphi_n^-$, one can successively determine the ϕ_i from (6).

Let denote

 $K_{n} = 2 \int_{0}^{\infty} K(\xi) \xi^{n} d\xi, K_{2m+1} = 0 \qquad (n=2m) \qquad (7)$ The series $K + \delta^{2}K_{2} + \delta^{4}K_{4} + \cdots, \qquad (12)$

is assumed to converge for $|\delta| < \delta_0$.

Theorem: If in the equation (1) the kernel K(|x-y|) is so that the series (12) converges, then (1) possesses a solution in the form of the series (4), where this series converges for sufficiently small A and arbitrary x.

Card 3/4

CIA-RDP86-00513R001446410007-4 "APPROVED FOR RELEASE: 06/20/2000

26459

S/140/61/000/003/005/009 0111/0333

On a nonlinear singular integral ...

There are 5 Soviet-bloc-references.

ASSOCIATION: Irkutskiy gornometallurgicheskiy institut (Irkutsk Mining and Metallurgical Institute)

SUBMITTED: February 10, 1959

Card 4/4

operimental He per presented (1964.			Fillius, GI	Ondinicib.			
1964.		r on Heat	and Mass	Transfer.	Minsk i	4-12	
				iransier,	riziibii,	•	
Lzunov" Inst	, Lenlingrad.						

s/0032/64/030/004/0503/0503

ACCESSION NR: AP4033623

AUTHORS: Tisheninov, A. Ye., Rysbin, R. A.

TITLE: A photoelectric relay for recording the crisis of bubble boiling

SOURCE: Zavodskaya laboratoriya, v. 30, no. 4, 1964, 503

TOPIC TAGS: photoelectric relay, bubble boiling, film boiling, superheating, ohmic resistance, photoresistance, photosensitive element FS Kl, polarizing relay RPB 5, relay PKU 48, cadmium sulfide, relay PKU 48

ABSTRACT: A photoelectric relay (see Fig. 1 on the Enclosure) was built for recording the approach of crisis during the transition from bubble boiling to film boiling. It was to be used for disconnecting the power circuit when superheating was detected. The operation of the relay is based on the change in ohmic resistance of the circuit as a result of illuminating the photoresistor. Cadmium sulfide material of the type FS-K1 (with a sensitivity of 6000 microamp/lumen and a relative change in resistance of 99.28% from dark to bright) was used for the construction of the photosensitive element. Terminal blocks of relay MKU-L8 were used for all connections. A polarizing relay of the type RPB-5 was provided to enhance the sensitivity of the photorelay. Orig. art. has: 1 figure.

Card 1/3

ACCESSION NR: AP4033623		
ASSOCIATION: Tsentral'nywy nakotloturbinnywy institut im. I and Construction Institute of	auchno-issledovatel'skiy i proyektr I. I. Polzunova (Central Scientific Boilers and Turbines)	no-konstruktorskiy Research, Design,
SUBMITTED: 00	DATE. ACQ: 28Apr64	, ENCL: 01
SUB CODE: EC, GC	NO REF SOV: 000	OTHER: OOO
	는 사용하다 보다는데 여름, 모모하렴. 본 시간 회사가는 시간 기가 있는데	
\$P\$\$P\$ \$P\$	상태시 시간 본 학생 생각이 다르게 얼마요? 그릇!	

L 42318-66 WW/GD EWT(1)ACC NR: (A)AT6021836 SOURCE CODE: UR/0000/65/000/000/0060/0078 AUTHOR: Alferov, N. S.; Rybin, R. A. ORG: Central Boiler and Turbine Institute im. I. I. Polzunov (Tsentral'nyy kotloturbinnyy institut) TITLE: Hest transfer in annular channels SOURCE: Teplo- i massoperenos. t. III: Teplo- i massoperenos pri fszovykh prevrashcheniyakh (Hest and mass transfer. v. 3: Heat and mass transfer in phase transformations). Minsk, Nauka i tekhnika, 1965, 60-78 TOPIC TAGS: convective heat transfer, heat transfer coefficient ABSTRACT: The experiments were carried out in concentric annular channels with a gap width of 0.001, 0.0015, 0.003, and 0.005 meters. The internal diemeter of the channel was 0.015 meters. The tests were made in a closed loop with forced circulation of water at a pressure of 147 bars. The circulation rate was varied from 0.4 to 8 meters/sec, the preheating temperature from 6 to 70 K, and the heat loads from 23.3 x 104 to 17.45 x 10 watts/m². The experimental results are given in tabular and graphic form. The following conclusions are drawn. Card 1/2

ACC NR: AT6021836

the turbulent flow of water in annular channels with heating from one side, convective heat transfer from the internal surface depends on the width of the gap (a calculation formula is proposed). Heat transfer from the outer surface does not depend on the width of the gap. In the surface flow of a liquid with forced motion in annular channels at high values of water underheating, with heating from one and two sides, the heating does not depend on the width of the gap. A second formula is proposed for calculating the heat transfer coefficient under these conditions. Orig. art. has: 12 formulas, 5 figures and 3 tables.

SUB CODE: 20,13/SUBM DATE: 09Dec65/ ORIG REF: 015/ OTH REF: 013

<u>L 41752-66</u> EWT(1) IJP(c) GG/AT

ACC NR: AP6011910 SOURCE CODE: UR/0141/66/009/002/0261/0271

AUTHOR: Kondratenko, A. N.; Liokumovich, V. I.; Rybin, P. N.

/ ኒ

ORG: none

TITLE: Nonlinear theory of electromagnetic waves in a confined plasma

SOURCE: IVUZ. Radiofizika, v. 9, no. 2, 1966, 261-271

TOPIC TAGS: isotropic plasma, plasma electromagnetic wave, NONLINEAR THEORY, CONFINEO PLASMA

ABSTRACT: The propagation of electromagnetic waves with small finite amplitude in a homogeneous plasma layer of any thickness is theoretically considered. The E-mode (E_x, E_z, H_y) is determined; a slight nonlinearity is assumed. The initial hydrodynamic system of nonlinear partial differential equations consists of three Maxwell equations and one equation describing the motion of plasma electrons. Solution of this system is sought in the form of a small-parameter

Card 1/2

UDC: 621.371.182

L 41752-66

ACC NR: AP6011910

series; in each approximation, the partial differential equations are reduced to ordinary linear differential equations with known right members and boundary conditions. First, a simpler case — the plasma layer placed in an infinitely strong magnetic field — is analyzed. Then, the case of free plasma layer is considered, a linear solution is found, and second harmonics of the wave are determined. Near-critical-frequency nonlinear dispersion equations are set up. It is found that the phase velocity essentially depends on the wave-field amplitude in a semi-limited plasma, near the critical frequency. "The authors wish to thank Ya. B. Faynberg for discussing the results." Orig. art. has:

SUB CODE: 20 / SUBM DATE: 22Jul65 / ORIG REF: 006 / OTH REF: 003

Card 2/2

RYBIN, 1	
	New types of freight cars. Theldor.transp. 45 no.12:85-86 D 163.
	(MIRA 17:2) 1. Glavnyy inzh. Dneprodzerzhinskogo vagonostroitelinego zavoda.

ROMANOV, A.N., kand.tekhn.nauk; RYBIN, N.S., starshiy nauchnyy sotrudnik; IVANOVA, G.A., starshiy nauchnyy sotrudnik; PETKEVICH, V.P., tarshiy nauchnyy sotrudnik

Standard processing procedure for manufacturing food concentrates.

Trudy VIIIKOP no.10:42-48 159.

(Food, Concentrated)

(Food, Concentrated)

RUDZITSKIY, A.A.; RYBIN, N.S.; KRETININ, A.A.; CHERNOMORSKIY, G.A., spetsred.

[Automatic control of the process of drying on conveyer driers]
Avtomatizatsiia protsessa sushki na konveiernykh sushilkekh.
Moskva, Gos.nauchno-issl.in-t nauchn. i tekhn.informatsii, 1959.

9 p. (MIRA 13:6)

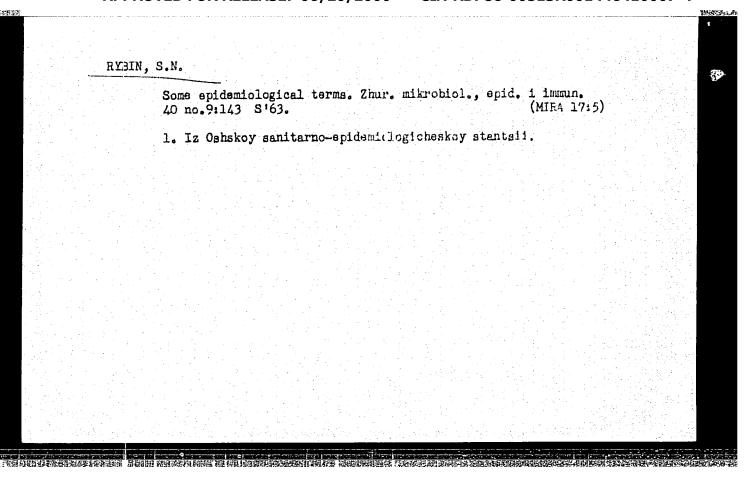
VY50KOVSKIY, S.N., RAMEYEV, G.G., MERKULOVA, R.M., RYBIN, O.N., LOGVINOV, L.M., SHTIRTS, V.V., POTAPOV, V.P.

Efficient rolling conditions and the introduction of strain gauges for controlling metal pressure on rolls. Biul. tekh.-ekon. inform. Gos. nauch.-issl. inst. nauch. i tekh. inform. 17 no.12:7-9 D'64. (MIRA 18:3)

RYBIN, S.F., otv. red.; STOROTHRV, N.A., red.; KRMISCV, A.G., red.; KYCHANOVA, N.T., red.; FOFCV, Yu.K., red.; KOVRICO, V.F., red.; YERMOLAYEVA, H.G., red.

[The Udmurt land; collection of articles, stories, and verses about nature in the Udmurt A.S.S.R.] Krai Uimurtskii; sbornik statei, rasskazov, stikhov o prirode Udmu tii, Izhevsk, Udmurtskee krizhnoe izd-vo, 1963. 75 p. (MIRA 18:2)

1. Vserossiyskoye obshchestvo sodeystvije okhrane prirody. Udmurtskoye otdeleniye.



	7.10/ 3	10
ľ	L 06139-67 EWT(m) IJP(c) ACC NR. AP6031170 SOURCE CODE: UR/0361/66/000,002/0003/GC15	
	AUTHOR: Nemenov, L. H.; Anisimov, O. K.; Arzumanov, A. A.; Golovanov, U. N.;	
+	AUTHOR: Nemenov, L. M.; Anisimov, C. K.; Arzumanov, I. A.; Heshcherov, R. Yezerskiy, V. F.; Kravchenko, Ye. T.; Kruglov, V. G.; Laktionov, I. A.; Heshcherov, R. X.; Heshcherova, I. V.; Popov, Yu. S.; Prokof'yev, S. I.; Rybin, S. N.; Fedorov, N. D.	‡
	ORG: Institute of Nuclear Physics, AN KazSSR (Institut yadernoy fiziki AN KazSSR)	
!	TITLE: Putting the Kazakhatan cyclotron into operation /3	
	SOURCE: AN KazSSR. Izvestiya. Seriya fiziko-matematicheskikh nauk, no. 2, 1966, 3-15	
	TOPIC TAGS: cyclotron, proton accelerator, New accelerator, alpha particle / U1502 cyclotron	
できる かんきゅう でんぱん かんしん しんしゅうしゅう しんしん しんしん しんしん しんしん しんしん しん	ABSTRACT: The U-150-2 cyclotron of the Institute of Nuclear Physics of the Academy of Sciences of the Kazak SSR is described. This cyclotron is designed to accelerate protons, deuterons, alpha particles, and multiply charged ions. Energies of 24 Hev are obtained with deuterons. Alpha particles and protons can be accelerated to 48 Hev and 20 Hev, respectively. Sixfold ionized carbon can be accelerated to 140 Hev. The magnetic field in the cyclotron necessary for 20 Hev deuteron production is 14000 ceresteds; this is produced by a current of 800 msp. The necessary variation of the magnetic field with radius is obtained by the use of annular shims. The high frequency generator and its alignment is described. The dependence of beam current at various	
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Operational and production planning based on the mechanization of calculations. Mashinostroenia no.(319-27 Jlaig (64.) (MIRA 17:10)		198.	RYI	971	Į,								8	<u>-</u> 1	Ī	ÞΣ	ಂದ		3.		n	p.] H.	nn:	in	g	⊃ā,	.5e	d	ر د د		tn.	.	:12	on •	an 67	12	āţ	ii c	Ti.							
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Pharmacodynam	ics of pumpkin	seeds. Trudy Gel'm.	lab. 9:232-233 (MIRA 13:3)	159•
	(Pumpkin seed)	(Anthelmintics)		

9(6), 9(8)

Z/014/60/000/05/010/043 D029/D025

.

AUTHOR:

Ohera, Milan, Engineer; Rybářík, Antonín

TITLE:

Apparatus for Registration of Frequency Deviations

PERIODICAL:

Sdělovací technika, 1960, Nr 5, pp 175-177

ABSTRACT:

The authors state that parameters of carrier frequencies of transmitted signals must be very precisely maintained and must therefore be exactly controlled. This is especially necessary in tuned circuits where LC oscillators are used, the stability of which is affected by temperature changes. The exciter Test Shop of the Tesla Electronic Equipment Plant in Hloubétin developed an apparatus which registers automatically frequency deviations of exciters caused by temperature changes. The block schematic of the apparatus is given in Diagram 1. A crystal oscillator which can be switched over to various frequen-

Card 1/5

Z/014/60/000/05/010/043 D029/D025

Apparatus for Registration of Frequency Deviations

cies serves as control unit. The crystals themselves are placed in a thermostat to reduce the influence of outside temperature /Diagram 27. The signal of the crystal oscillator is fed to a mixer, the second input of which is connected to the voltage of the exciter to be measured /Diagram 37. The voltage of different frequencies is then fed from the output of the mixer to an amplifier which has the same effect as an amplitude limiter. The resulting voltage has a rectangular course with a sufficiently steep front edge so that its positive peaks can trigger a monostable multivibrator upon passing a derivative circuit. The oscillations of the multivibrator correspond then with the beat frequency of the compared signals. The rectangular course of the voltage from the multivibrator steers

Card 2/5

Z/014/60/000/05/010/043 D029/D025

Apparatus for Registration of Frequency Deviations

the current flow of the output stage, the anode circuit of which is equipped with the registration device. The length of the rectangles is constant, only their frequency changes, and the medium value of the output stage current (and the value indicated by the Depréz registration device) are in linear dependance of the difference of both frequencies. The curve of emitter stability is recorded on a paper tape. The apparatus has also a time switch, which changes every half hour, for a period of 3 minutes, to another power source for measuring the temperature. The temperature is measured with a thermistor, connected into an acc fed bridge /Diagram 47. The a-c signal of the bridge is amplified, rectified and led to the registration device. The resulting chart is shown

Card 3/5

Z/014/60/000/05/010/043 D029/D025

Apparatus for Registration of Frequency Deviations

in Photo 7. The apparatus is equipped with 2
"Metra RG" registration devices and all other circuits, except the thermometer, are doubled, so that 2 independent measurings can be made. The switch-over of the registration device for temperature measuring is blocked to avoid errors when both instruments are simultaneously connected /Diagram 57. The entire apparatus is fed with electronically stabilized d-c from the 220 V grid, has 2 crystal oscillators with 6 measuring ranges from 1 - 2 Mc, achieves a frequency stability of 2 x 10 7/0/24 hours, has 2 mixers with an input voltage of 1 V and a frequency range of 100 Kc - 10 Mc and 2 frequency meters adjustable to 5 ranges:

Card 4/5

Z/014/60/000/05/010/043 D029/D025

Apparatus for Registration of Frequency Deviations

60-120-600-1,200-6,000 c/s. Besides measuring oscillator stability, the apparatus can be also used for determining the heat coefficient of condensers, the inductive coefficient also for crystal cuts. With minor modifications, it can be used to measure the stability of revolutions and other periodic processes. The apparatus is designed in sections which are inserted between partition walls. The front panel of the apparatus is shown in Photo 6. There are 6 diagrams and 1 photo.

Card 5/5

RYPIN.P. |BELL'AVSKIY, G.N.; RYBIN, P.I.: SEREBRENNIKOV, S.S., redaktor; BEKKER,
O.G., tekhnicheskiy redaktor

[Lining steel smelting furnaces] Kladka staleplavil'nykh pachei.
Izd. 2-e, ispr. i dop. Moskva, Gos. nauchno-tekhn. izd-wo lit-ry
po chernoi i tsvetnoi metallurgii, 1953. 322 p. (MIRA 7:10)

(Smelting furnaces)

15-57-10-15004

Referativnyy zhurnal, Geologiya, 1957, Nr 10, Translation from:

p 282 (USSR)

Rybin, P. I. : SCHTUA

An Experiment in Automation of the Electro-Mechanical TITLE:

Equipment in Mine No. 7/8 of the Chistyakovo Anthracite Trust (Opyt avtomatizatsii elektromekhanicheskikh usta-

novok shakhtoupravleniya Nr 7/8 tresta Chistyakovan-

tratsit):

v ugol'n. prom-sti, Moscow, V sb: Avtomatizatsiya PERIODIC AL:

Ugletekhizdat, 1956, pp 16-24

A brief description is given of the equipment and ABSTRACT:

operation of three automatic installations in mine operation of three automatic installations in mine No. 7-"bis" (Donbass): the principal hoist, which is inclined and uses an OL-9-12 winch; the central highvoltage water-drainage apparatus according to the Donets Industrial Institute design using pump KSM-100 x 50; and the simple winch for the rock dump. Along the principal incline (1.5 km long) with nine platforms

Card 1/3

15-57-10-15004

An Experiment in Automation of the Electro-Mechanical (Cont.)

for hoisting the loads, signals are made in the dispatch room by The signals are light screens with signal lamps for each platform. interlocked with the automatic AUL-2 design. With this system, in case the hoist stops at any of the platforms the dispatcher discovers The remote control about the stoppage and takes the proper measures. of the hoist is accomplished from the platforms without an operator at the winch. Automation of the central water-drainage Donets Industrial Institute system requires the pump to be constantly submerged, but the methods of submerging it are unreliable and this weakness complicates considerably the conversion to an automatic system and makes the process more expensive. A new simple and reliable method for submerging the pump is proposed. In this scheme the water being supplied from overlying layers constantly flows over the intake pipe of the pump. Such an arrangement may be found in uninterrupted operation for many years. The mounting and operation of remote control for the simple winch operating the rock dump are described. An operator at the place of loading the cars generally uses a switch to give an impulse in the remote control circuit, at 36 v, for starting the winch "forward" or "backward." An arrangement Card 2/3

An Experiment in Automation of the Electro-Mechanical (Cont.)

is provided in the system for producing a smooth increase in speed of the cars at the beginning of the course and a smooth retardation till they are completely stopped and automatically unloaded at the dump on the surface. Also provided are an automatic emergency brake to work when the cable breaks, when the car begins to bury itself, and when the load is excessive; safety guards are also present at top and bottom. The system is made of standard apparatus and of apparatus prepared in the mine shops. The introduction of these three automatic installations in the mine has effected an economy of 116 209 rubles by freeing 11 men formerly operating the equipment.

Card 3/3

SOV/112-58-2-2306

Translation from: Referativnyy zhurnal, Elektrotekhuika, 1958, Nr 2, pp 83-84 (USSR)

AUTHOR: Rybin, P. I.

TIT'LE: Automatic Operating Experience with Electromechanical Installations at Mine Management Nr 7/8, "Chistyakovantratsit" Trust (Opyt avtomatizatsii elektromekhanicheskikh ustanovok shakhtoupravleniya Nr 7/8 tresta "Chistyakovantratsit")

PERIODICAL: V sb.: Avtomatizatsiya v ugol'n. prom-sti, M., Ub'etekhizdat, 1956, pp 16-24

ABSTRACT: The main hoisting installation, with an OL-9-12 winch, at the Nr 7-bis shaft, "Chistyakevantratsit" Trust, has been converted to automatic control. Automation has reduced the starting time of the main hoist after a shutdown, ensured smoother starting, and reduced the number of workers. The automatic-control equipment for a central high-voltage water-pumping installation that has a DEE scheme and a KSM = 100 x 150 pump is mounted at the 5th level.

Card 1/2

SOV/112-58-2-2306

Automatic Operating Experience with Electromechanical Installations at Mine . .

Acceleration and deceleration of the barren rock-transportation winch has been made automatic. Automating the plant has made 4 winch-operators unnecessary and has improved winch operating conditions. Automation of all of the above-listed outfits saved 116,209 rubles per year on wages and quickly paid for all automation expenses.

V.F.R.

Card 2/2

RYBIN, R.; NOVAK, V.

Phenolic substances in coffee substitutes and their determination. p. 424.

CESKCSLOVENSKA HYGIENA. Praha, Czechoslovakia. Vol. 4, no. 7, Aug. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.
Uncl.

Η CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Fats and Oils. Waxes. Soaps and Detergents. Flotation Agents. Abs Jour: Ref Zhur-Khimiya, No 6, 1959, 21128 : Sedlacek, A. J.; Rybin, R. Author : Comparison of a Thiocyanate Colorimetric Inst Method with Two Iodometric Methods for Title Determining the Peroxide Count of Fats. Orig Pub: Prumysl potravin, 1957, 8, No 5, 258-260 Abstract: It is indicated that the colorimetric method of determining the peroxide count in fats according to Hills and Teal (J. Dairy Res., 1946, 14, 340) gives erroneous re-

card : 1/2

RUDOLE, RYBIN

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Food Industry. H-28

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 16119.

Author : Sedlacek Bohuslav, Rybin Rudolf

Inst

Title : Vitaminization of Dry Milk with L-Ascorbic Acid.

Orig Pub: Vyziva lidu, 1956, 11, No 11, 156-158.

Abstract: 200-250 mg 1-ascorbic acid (I) and 100 mg Ma-citrate are

added per liter of milk which is then spray-dried and packed in cardboard boxes. During drying about 10% of the added I are destroyed. On prolonged storage of the vitaminized dry milk no change in milk fats and no taste deterioration take place due to the antioxidant properties of I. The re-

constituted milk is recommended for infant feeding.

Card : 1/1

Author Tnst. Title

by the Colorimetric Method Using Determination of Unit

Prumysl potravin, 1957, 8, No 1, 44-45 in which 2-thiobarbitu-

APEROVED FOR RELEASE: 06/20/2000 roposed, in which 2-thiobards.

A colorimetric method, for the evaluated in a 500 ml flask into ric acid is utilized, for fat are weighed in a 500 ml flask into freshness of fats. 5 g of fat are with a 3N HCl. The flask freshness within 0.01 g and placed in a 500 ml 3N HCl. to a Liebig freshness within 0.01 g and placed in a 500 ml so a liebig freshness withi curacy within 0.01 g and placed in a 500 ml flask into curacy within U.U. g and placed in a 700 ml Hask into which are added 100 ml water and 5 ml 3N HCl. The flask is attached, by means of a ground glass joint, to a Liebig is attached, by means of a ground glass joint, to a naive condenser and distillation is carried out. For the analysis are taken the first 25 ml of the distillate, which

Card 1/2

____ a 20 x , solution A and solu-

___ mixture is stirred thoroughly and

minutes on a boiling water bath. After cooling in cold water, the intensity of the pink-red coloration that develops, is determined colorimetrically at λ 530 m . (green filter). At the same time a blank test is made. The standard used is a solution of Safranin O in water. Solution A is prepared as follows: 1 g of 2--thiobarbituric acid is dissolved with heating in 50 ml distilled water, with an addition of 2 ml of 3N NaOH. After cooling, 0.4 ml of 3N HCl are added, and the solution is diluted with water to a volume of 100 ml. Solution B is concentrated (85%) phosphoric acid.

CHECHOSLOVAKI./Chemical Technology. Chemical Products and Their H-25 Application. Fats and Oils. Waxes. Scops and Detergents. Flotation Agents. Albs Jour: Ref Zhur-Khim., No 2, 1959, 6159. Author : Sedlacek, B; Rybin, R; Ticha, A. : Determination of Peroxide Numbers and Other Methods of Inst Title Estimation of Degree of Rancidity of Fats. Orig Pub: Zh. gigiyeny, epidemiol., mikrobiol. i imamol. (Chekhosl.), 1957, 1, No 1, 83-90. Abstract: Comparative studies of alterations in fats during their storage by various chemical methods and organoleptic estinations were carried out. The following was tested: modified method of determination of per xide numbers (PNs), : 1/3 Card

OMECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Fats and Oils. Wexes. Scaps and Detergents. Flotation Agents.

II-25

Abs Jour: Ref Zhur-Khim., No 2, 1959, 6159.

determination of acidity, colorimetric methods (with thieberbituric acid and with diphenylcarbazide), and tests of Kreis, Fellenberg, Schmalfuss and Keren / transliteration from Russian/ (with reduction with phenolphthalein). It was found that PMs can be used for the estimation of the rancidity of lard (L), as well as of vegetable oils, but that they are not applicable to the estimation of the freshness of cow butter. The PM of fresh lard should be equal to, or less than, 1 m-equiper kg; lard with PM equal to, or less than, 2.5 can be stored, if the taste quality was normal, and lard with FM greater than 7 is not fit for consumption. The PMs of rancid vegetable only are greater than 25 with the

Card : 2/3

112

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Fats and Oils. Waxes. Scaps and Detergents. Flotation Agents.

Abs Jour: Ref Zhur-Khim., No 2, 1959, 6159.

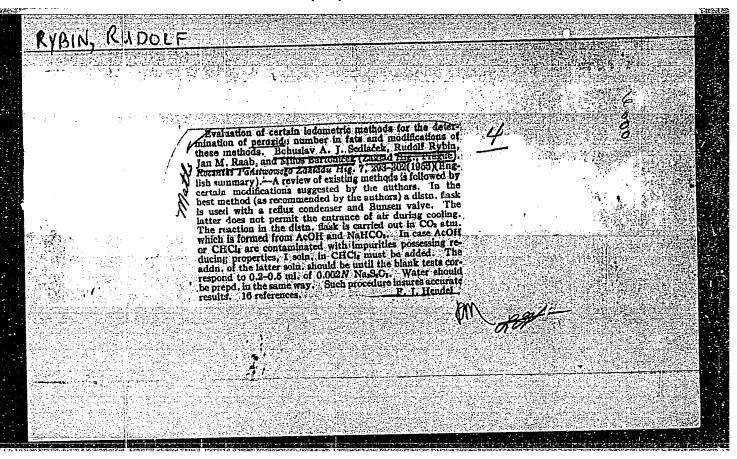
exception of the deederized peanut butter, which is remeid at PN = 15, seyabean cil, which is remeid at PN = 10, and contenseed cil, which is remeid at PN = 5. Acidity not always characterizes the degree of rancidity of fats, it is most applicable to the analysis of cow butter. Kreis's test is important only, if the result is positive. Schmalfuss's test is useful for the establishing of a strong rancidity, and keren's /transliteration from Russian/ test is not very reliable. Colorinatric methods yielded good results. - A. Yenel'yanov.

Card: 3/3

RYBIN, R.

Comparison of the colorimetric rhodanide method with two iodometric methods to determine peroxide numbers in fats. p.258. (Prumysl Potravin, Vol. 8, No. 5, 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.



from subble to film boiling. Zav.lsb. 30 no.4:563	(MIRA 17:4)
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S/170/63/006/002/003/018 B104/B186

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AUTHOR:

Rybin, R. A.

TITLE:

Investigation of how the tube diameter affects the amount of the critical thermal load during the boiling of water

PERIODICAL: Inzhenerno-fizicheskiy zhurnal, v. 6, no. 2, 1963, 15-19

TEXT: This investigation relates to the flow of a water-vapor mixture with a water-vapor content of up to 10% by weight at the channel outlet, a weight velocity, $f'w_0 = (1.6-7.0) \cdot 10^4 \text{ n·m}^{-2} \cdot \text{sec}^{-1}$ and a pressure of

101.3·10⁵ n·m⁻². The tubes had relative lengths of 1/d=40 and the experimental setup was a closed loop with forced water circulation. Results: The critical thermal load increases with decreasing tube diameter. $q_{cr}=(6.0\text{-}3.05\beta)d^{-0.4}10^{-0.5}$, d being the tube diameter and β the vapor content per unit volume. Further processing of the experimental results according to S. S. Kutateladze (Nauchnyye doklady vysshey shkoly, Energetika, no. 2, 1959) confirms this result. Explanation: With Card 1/2

S/170/63/006/002/003/018 Investigation of how the tube diameter ... B104/B186

reduction of the channel diameter, the characteristic dimension of the developing vapor phase decreases under the effect of the hydraulic pressure of the flowing liquid. The share of the tube's heating surface in contact with the vapor phase is reduced and the stability of the diphase layer close to the wall is increased. There are 4 figures.

ASSOCIATION: Tsentral'nyy kotloturbinnyy institut imeni I. I. Polzunova,

g. Leningrad

(Central Boiler and Turbine Institute imeni I. I. Polzunov,

Leningrad)

SUBMITTED: July 12, 1962

Card 2/2

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S/089/62/013/004/008/011 B102/B108	
26.5406 AUTHOR: Rybin, R. A.	10
TITLE: Critical thermal loads in a saturated liquid boiling in tubes	
PERIODICAL: Atomnaya energiya, v. 13, no. 4, 1962, 377 - 380	
TEXT: A comparison between experimental and theoretical data on the natur of the boiling crisis indicates that the former can be sufficiently generalized, within the limits of error, by taking only hydrodynamic factors into account. Such a method of generalization is discussed here. The criterion for a generalization of the critical thermal loads which correspond to the boiling of non-viscous liquids is $K = q_{cr}/r \sqrt{\epsilon y^{r}} \sqrt{4\sigma(y^{r}-y^{r})}$	
= const, where q_{cr} is the critical flow of heat. As the relation $K = \frac{3}{2} \frac{3}{2} \frac{2}{p^2} \frac{2}$	10
Card 1/2 $\frac{\gamma' \sigma^{9/2}}{g \mu^{2} (\gamma' - \gamma')^{1/3}}; d \sqrt{\frac{\gamma' - \gamma'}{\sigma}}, d \sqrt{\frac{\gamma' - \gamma'}{\sigma}} = K_{d}.$. 30

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Critical thermal loads 5/089/62/013/004/008/011 B102/B108	
(cf. S. S. kutateladze, M. A. Styrikovich. Gidravlika gazozhidkostnykh sistem - Hydraulics of gas-liquid systems - M., Gosenergoizdat, 1959). If	10
x = Ai/r i the vapor content by weight, K can be put equal to	
f(\mathbb{V} $(f'-f'')/\epsilon^2\sigma$; β) (2) after having introduced $\beta = [1+f''(1-x)/f'x]$ These relations hold for pressures of 100 - 200 at in vater -steam mixtures and for tube diameters of $d=6-10$ mm, in which case q_{cr} is independent o	f 45
d. Differences between experimental data obtained under equal conditions are attributed to the occurrence of pulsations in steam-generating circuits now the length of tube within which there is surface boiling influences the flow in the length of tube in which the crisis sets in is discussed in detail. The effect of an inaccurate determination of the vapor content, and the effect of the transition from bubble boiling to film boiling, are also discussed. [Abstracter's note: Nost of the quantities used here are not defined, and obviously are taken from Soviet books. The 18 references are all soviet.]	
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SUBMITTED: April 29, 1961	
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RYBIN, S. A.

Severnyi morskoi put' i ego znachenie v ekonomike Sibiri. Northern Sea Route and its importance for the economics of Siberia. (In Sibiriskii kraevoi nauchno-issledovatel'skii s"ezd, lst, Novosibirsk, 1926, Trudy, v. 4, 1923, p. 76-99).

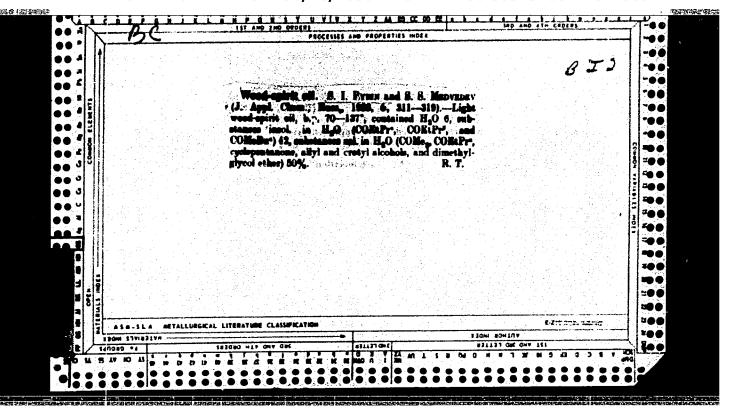
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So: Soviet Transportation and Communications, a Bibliography, Library of Congress, Reference Department, Washington, 1952, Unclassified.

RYBIN, S.F., red.

[Conservation, a national problem] Okhrana prirody vsenarodnee delo. Izhevsk, Udmurtskoe knizhnoe izd-vo,
1962. 55 p.

1. Vserossiskoye obshchestvo okhrany prirody. Udmurtskoye
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ARZUMANOV, A.A.; MESECHEROV, R.A.; MIRONOV, Ye.S.; NEMENOV, L.M.; RYBIN,
S.M.; EMOLMOVSKIY, Yu.A.

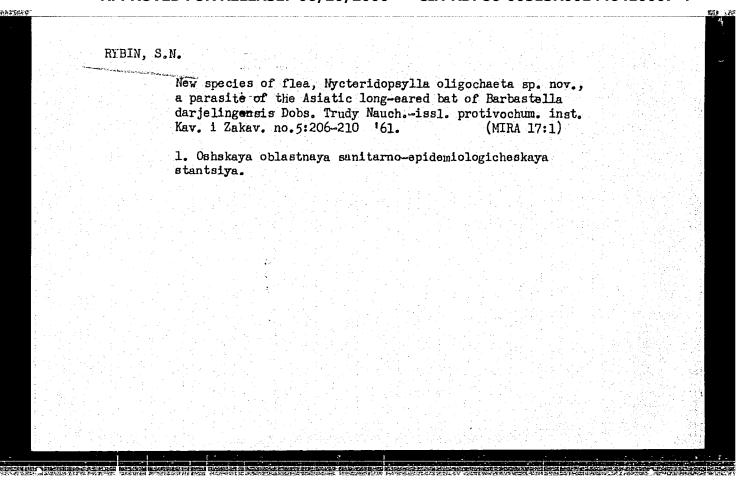
Experiments on the acceleration and yield of ions in a cyclotron with azimuthal variation of the magnetic field and controllable energy. Atom. energ. 12 no.1:12-21 Ja '62. (MIRA 15:1)

(Cyclotron) (Ions)

ARZUMANOV, A.A.; MESHCHEROV, R.A.; MIRONOV, Ye.S.; NEMENOV, L.M.; RYBIN, S.N. KHOLMOVSKIY, Yu.A.

Beam exit and energy regulation in a cyclotron with azimuthal magnetic field variation. Atom.energ. 10 no.5:501-502 My '61. (MIRA 14:5)

(Cyclotron)



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21,2200

AUTHORS:

Kondrashev, L.F., Rybin, S.N., Sokolov, N.I. and

Khaldin, N.N.

TITLE: Thin Vacuum-Tight Windows

PERIODICAL: Pribory i tekhnika eksperimenta, 1960, No.4, pp.102-105

In nuclear reaction studies it is frequently necessary to have thin vacuum-tight windows. The present paper describes some of the designs of such windows which were used in experiments on a 1.5 m cyclotron in which these windows were used for gas targets. vacuum chambers and other devices. The simplest solution of this problem which ensures that the thin window is in a vacuum-tight contact with the body of the apparatus is to solder the window to the body or to attach it with a suitable adhesive. However, this leads to a certain amount of contamination of the evacuated region during the soldering process and the contamination is difficult to In the case of soldering, a further difficulty is encountered since it is difficult to attach the window uniformly over the perimeter. As a result, the thin window is nonuniformly loaded when the apparatus is evacuated. The heating of the material of the window during soldering may lead to nonuniform Card 1/6

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Thin Vacuum-Tight Windows

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changes in its mechanical properties which are also undesirable, and non-demountable designs present difficulties when it is desired to replace the windows. Fig.1 (1 - window, 3 - thin foil, 4,5 - rubber packing) shows a demountable form of a window in which the thin foil has a cylindrical form and vacuum tightness is ensured by rubber packing. With a gas target of 5 cm in diameter. window height of 1.2 cm and window length along the circular periphery of 9 cm, an 8 μ thick iron foil withstood pressures in excess of 2.5 atm. With a gas target 10.6 cm in diameter and two windows of 1.7 cm x 5 cm and three windows 2 to 3 cm in diameter, a 30 μ copper foil withstood pressures up to 1.5 to 2 atm. This type of window was used by Bogdanov et al (Ref.1) in their studies of the proton spectra of the reaction He4 + d at 30%. Fig.2 (1 - mica plate 10 4 thick, 4 - rubber packing) shows another type of target in which the window is plain and consists of a 10 µ thick mica plate maintained in position by brass grids on The transparency of this arrangement was about 65%. A plane window The window is made vacuum-tight by rubber packing.

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Thin Vacuum-Tight Windows

designed for working pressures up to 10 atm is shown in Fig. 3. Here again, the foil 3 forming the wall of the window is supported on a brass grid 4 having a transparency of 70%. Rubber packing ensures vacuum tightness and 30 µ copper foils and 10 μ iron foils were used with this design. This type of window was used by Bogdanov et al (Ref.3) in their studies o the polarization of neutrons produced in the T(p,n)He3 reaction. Fig. 4 shows a similar window in which the foil 1 is supported by Fig.5 shows a a tungsten grid 2 made of 0.2 mm diameter wire. design of a thin window used with a β -spectrometer. The cylindrical wall of the window 3 was made from aluminium ribbon 0.5 mm thick; rubber packing ensures vacuum tightness. This window was used by Vlasov and Rudakov (Ref.4) in their studies of the angular $\beta-\gamma$ correlation in the case of Bal39. Finally, Fig. 6 shows the design of a gas target with a plane, thin wall 3 which was used by Bogdanov et al (Ref.5) in their studies of the spectrum of fast neutrons produced in the bombardment of deuterium by deuterons. Here a platinum foil 30 µ thick is soldered to the body. The foil is separated by a grid of tungsten Card 3/6

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Thin Vacuum-Tight Windows

wires 3. The window was found to withstand pressures up to 4 atm. The above devices were assembled and prepared for experiments by A.A.Shubin. There are 6 figures and 5 Soviet

references.

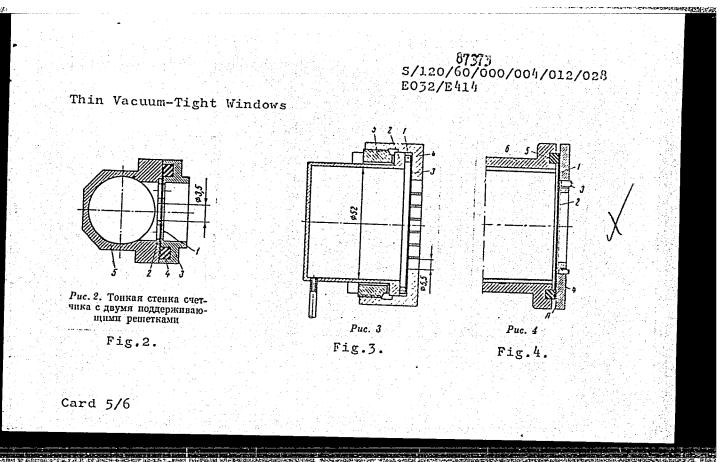
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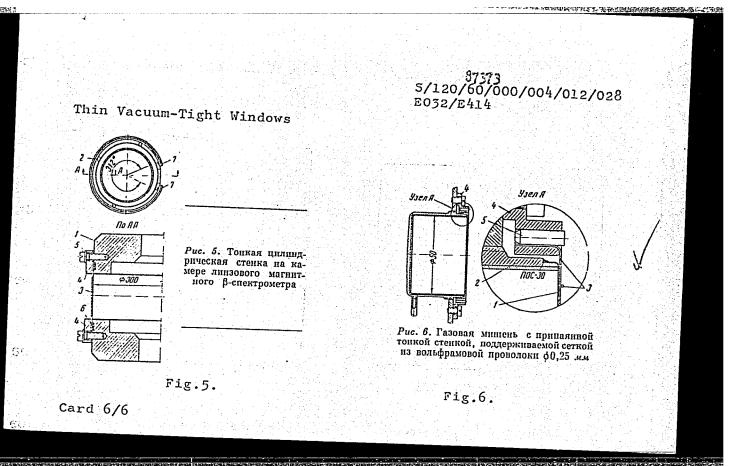
Fig.1.

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Puc. 1. Газовая мишень с тонкой цилиндрической стенкой





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Meshcherov, R. A., Mironov, Ye. S., Nemenov, L. M., AUTHORS:

Rybin, S. N., Kholmovskiy, Yu. A.

Ion Acceleration in a Cyclotron With Azimuthal TITLE:

Variation of the Magnetic Field

Atomnaya energiya, 1960, Vol 8, Nr 3, pp 201-208 PERIODICAL:

(USSR)

Thomas showed already in 1938 (see ref at end of abstract) that charged particle motion in cyclotrons ABSTRACT:

can be made stable in case of radially increasing fields if one introduces azimuthal variations in field intensities. Technical difficulties and the discovery of the self-phasing principle delayed, however, the use of azimuthally varying magnetic fields. The authors tested this kind of field in 1957 on a model of the 1.5-m cyclotron (1/2 natural size). They showed that a combination of iron and

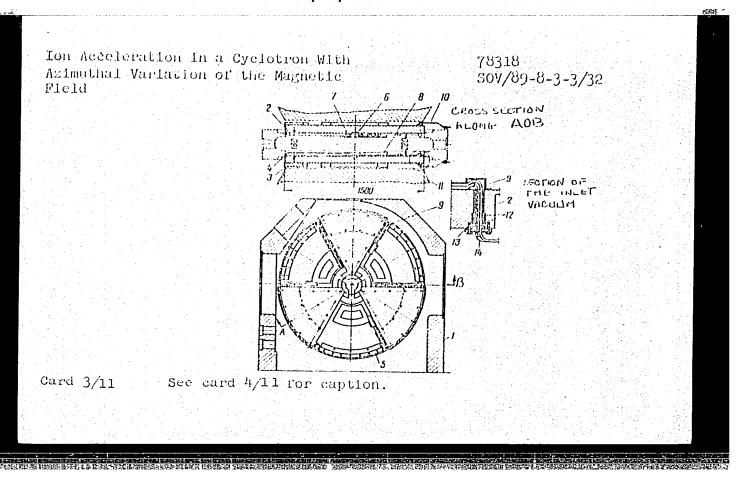
current corrective elements can produce a wide Card 1/11

Ion Acceleration in a Cyclotron With Azimuthal Variation of the Magnetic Field

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range of desired field shapes. In 1958 the authors constructed new full-scale parts for the large cyclotron whose shortest 26.7-m high-frequency wavelength determined the upper limits of the attainable particle energies. The azimuthal variation of the magnetic field with a +15% depth was achieved by means of three segments. The covers of the accelerator chamber with the corrective elements are shown on Fig. 1. To minimize the h-f losses, all iron surfaces were electrolytically covered by a $\sim 70\,\mu$ layer of copper. As seen, elements 5 were placed in the depressions between the segments and served to increase field intensity towards the periphery. Elements for fine correction were located on radii between 190 and 260 mm. Figures 2 and 3 show the central and off-center corrective windings. Characteristics of the beam were measured by means of two screened probes. An aluminum filter served to eliminate charged particles of low energy. The ions originated

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Ion Acceleration in a Cyclotron With Azimuthal Variation of the Magnetic Field

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Fig. 1. Covers of accelerator chamber with corrective iron elements and current corrective windings: (1) accelerator chamber; (2) covers of accelerator chamber; (3) outer corrective element; (4) sectors; (5) inner corrective elements; (6) central disks; (7) central corrective windings; (8) corrective windings in the troughs; (9) copper screens; (10) vacuum inlet for feeding windings; (11) poles of electromagnet; (12) insulators; (13) rubber seal; (14) chlor-vinile tube.

from a standard open-type source, and they were extracted into both dees. Two coils connected to a ballistic galvanometer measured the magnetic field with an accuracy of 0.05%. Figure 6 shows the azimuthal variations of the field for various values of radius R.

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Ion Acceleration in a Cyclotron With Azimuthal Variation of the Magnetic Field

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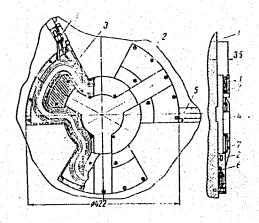
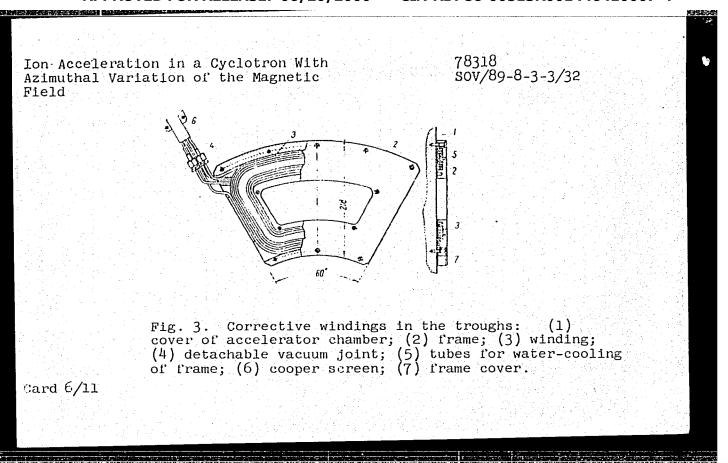
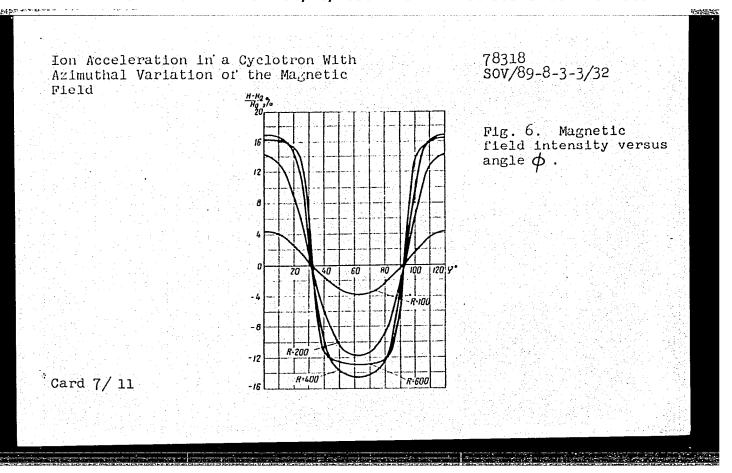


Fig. 2. Central corrective winding: (1) cover of accelerator chamber; (2) frame; (3) copper tube winding; (4) central disk; (5) copper screen; (6) detachable vacuum joint; (7) tubes for water-cooling of frame; (8) tightening plate.

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Ion Acceleration in a Cyclotron With Azimuthal Variation of the Magnetic Field

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Figure 8 shows the relationship between the beam current and the radius R. The relatively small decrease of current with radius in the cyclotron with azimuthal variations can be explained by smaller phase losses and strong vertical focusing. The authors note that the central corrective windings showed no favorable effects and produced (with both polarities of the added field) only a decrease of the probe currents. Using an absorber of 190 mg/cm² the authors measured an energy of 21.5 mev at a radius of approximately 650 mm, and this agreed with the calculated value within a 3% error. Energy spread of the ions was approximately +1.5%, while in the conventional cyclotron this spread was approx. +3%. The authors found also that at the 700 mm radius the beam acquired a much larger width (more than 15 mm) which enabled use of much smaller deflecting electrostatic potentials than those

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